

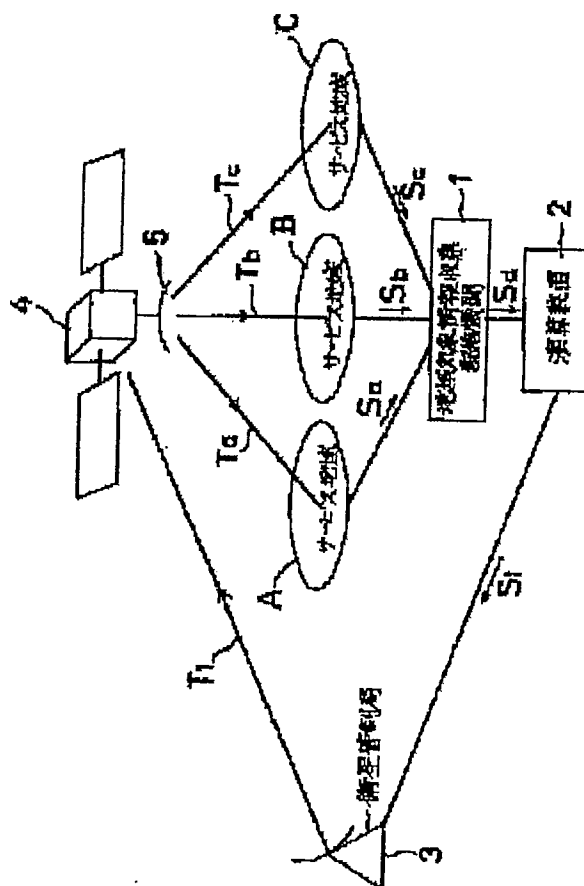
# TRANSMISSION POWER CONTROL SYSTEM FOR SATELLITE COMMUNICATION AND BROADCASTING

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**Inventor:** MATSUDO TAKASHI; KARASAWA YOSHIO  
**Applicant:** KOKUSAI DENSHIN DENWA CO LTD  
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## Abstract of JP5041683

**PURPOSE:** To compensate the attenuation of signal strength by controlling the transmission power of the satellite built-in transmitter or the radiation directive characteristic of the built-in antenna of the satellite with a variable radiation characteristic antenna by using weather information to be provided to the areas for satellite communication or broadcasting. **CONSTITUTION:** The system is provided with an area weather information collection/gathering function 1 which collect area weather information  $S_a$ ,  $S_b$ , and  $S_c$  of a plurality of service areas A, B, and C for communication or broadcasting through a satellite 4, an arithmetic unit 2 calculating a distribution coefficient delta for each service area from weather information  $S_d$  collecting the service areas A, B, and C and calculating transmission power control information  $S_1$  distributing sum of the supply transmission power to a beam antenna 5 for each service area in the satellite, and a satellite control station 3 transmitting the transmission power control information 1 and controlling the transmission power of the beam antenna for each service area.



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